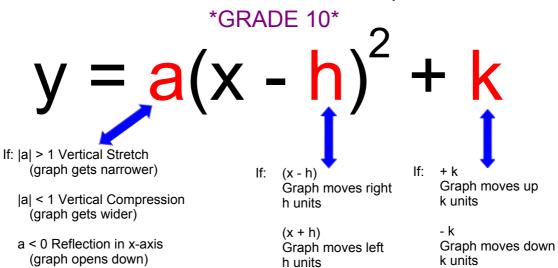
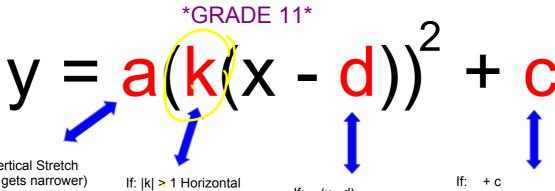
Transformations of Quadratics



Transformations of Quadratics



If: |a| > 1 Vertical Stretch (graph gets narrower)

|a| < 1 Vertical Compression (graph gets wider)

a < 0 Reflection in x-axis (graph opens down) Compressions (graph gets wider)

|k| < 1 Horizontal Stretch (graph gets narrower)

k < 0 Reflection in y-axis

(x - d) Graph moves right d units

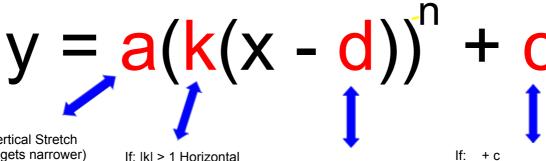
> (x + d)Graph moves left d units

Graph moves up c units

> Graph moves down c units

Transformations of Functions

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If: |a| > 1 Vertical Stretch (graph gets narrower)

|a| < 1 Vertical Compression (graph gets wider)

a < 0 Reflection in x-axis (graph opens down) If: |k| > 1 Horizontal Compressions (graph gets wider)

> |k| < 1 Horizontal Stretch (graph gets narrower)

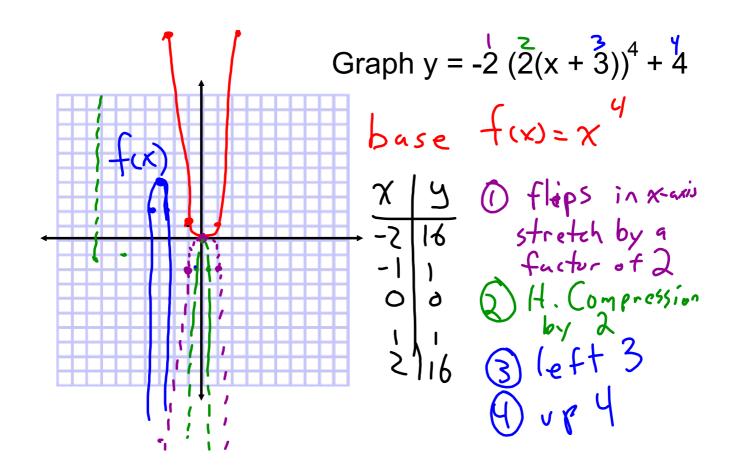
k < 0 Reflection in y-axis

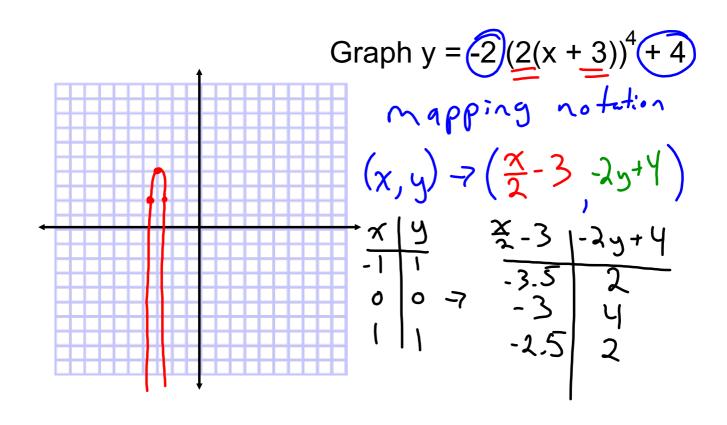
(x - d) Graph moves right d units

> (x + d)Graph moves left d units

Graph moves up c units

> Graph moves down c units





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